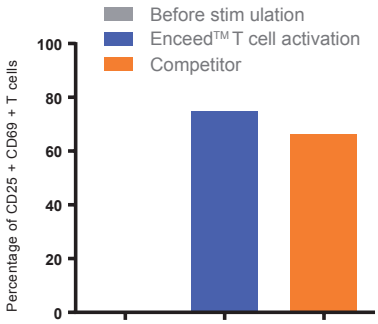
GenScript Enceed™ T Cell Activation Reagent

GenScript' s Enceed™ T cell Activation reagent induces activation and expansion of T cells (human) in enriched T cell populations or PBMCs. The Enceed™ T cell Activation reagent is composed of matrix of nanoparticles conjugated with anti-human CD3 and anti-human CD28 antibodies, which stimulate efficient T cell activation and expansion. The reagent is gentle on T cells, ensuring viability of activated cells. The small sized particulate structure of the activation reagent enables its easy removal by media washing or centrifugation.

Efficient CD3/CD28 T Cell Activation

The activation signal (CD25&CD69) is efficiently induced by Enceed™ T cell activation reagent



PBMCs were isolated using CytoSinct™ CD4 Nanobeads, human (RUO) (Cat# L00863) and CytoSinct™ CD8 Nanobeads, human (RUO) (Cat# L00864), then activated using T cell activation reagents from both GenScript and a competitor. After 48 hours, the expression of the activation marker (CD25 and CD69) on the cell surface was detected via flow cytometry. The Enceed™ T cell activation reagent activated larger percentage of the cell population compare to the reagent from popular competitor.

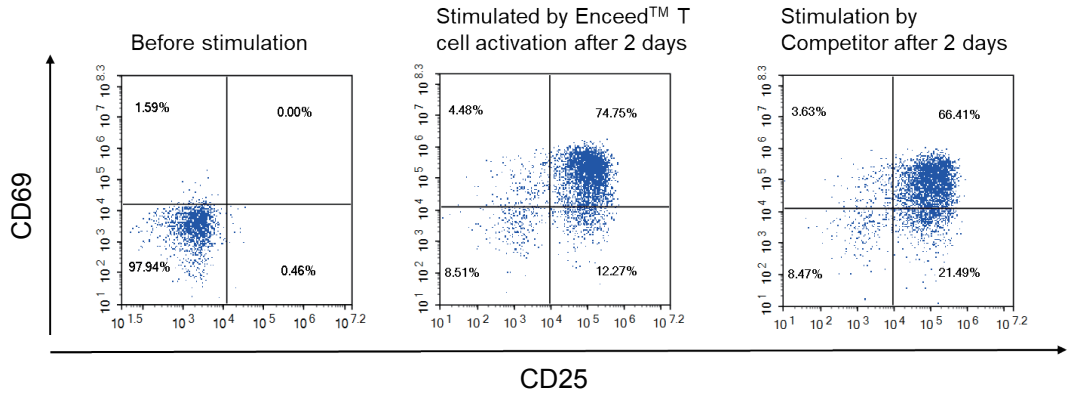


Figure 1. Comparison of the activation marker expression on day 2 between using Enceed™ T cell activation reagent and competitor product according to activation markers CD25 and CD69.

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High Cell Expansion and Viability after Activation

T cells show higher expansion rate after activated by Enceed™ T cell activation reagent

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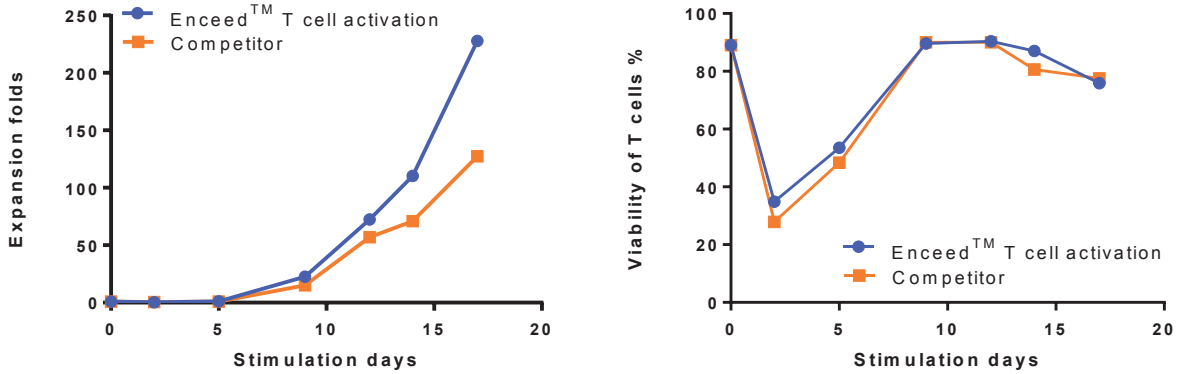

Figure 2. Comparison of the T cell expansion (left chart) and the T cell viability (right chart) between using Enceed™ T cell activation reagent and the competitor's product.

T Cell Subpopulation Distribution after Activation

Less differentiated T cell subsets (TSCM+TCM) take a large population after expansion

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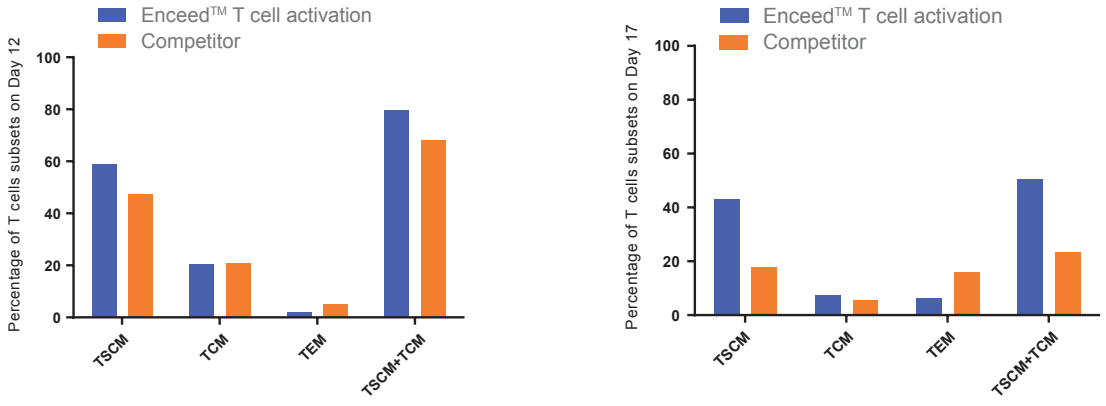

Figure 3. Comparison of T cell subpopulations on day 12 (left chart) and day 17 (right chart) between Enceed™ T cell activation reagent and competitor product, according to flow cytometry via the detection of different surface marker.

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